

## CAFO WPDES Compliance Report (6-20-14)



Inspection date: 4-25-14

Inspection type: EPA-lead inspection

Operation Name: Dairyland Farms LLC

WPDES Permit No. WI-0059559-03-0

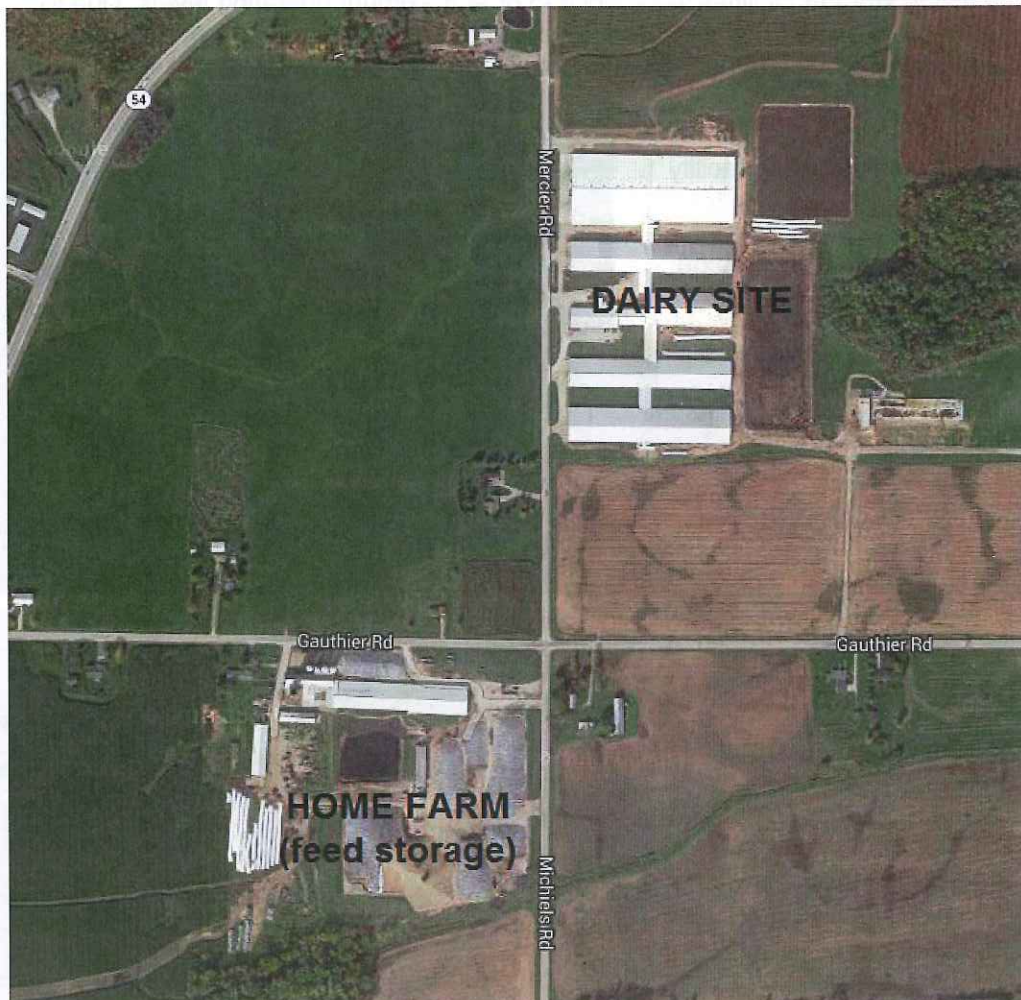
Operation Location: Sections 22 & 23, T24N, R22E

On-Site Representatives: Larry and Patty Dufek, Owners

Report Writer: Casey Jones, DNR Agricultural Runoff Management Specialist

On April 25, 2014 Jones and Brad Holtz (DNR Agricultural Specialist) met with Cheryl Burdett and Don Schwer (US EPA CAFO compliance program) to inspect Dairyland Farms. At approximately 9:00 AM DNR and EPA arrived and met with Larry and Patty Dufek, owners. The inspection was lead by EPA staff with DNR staff following along. DNR staff departed at around 12:00 PM, EPA had not yet concluded their entire inspection at that time and continued on with records review and water sampling.

Photo 1: Site location of Dairyland Farms—consists of Main Dairy site where most cattle are housed and Home Farm that has feed storage.





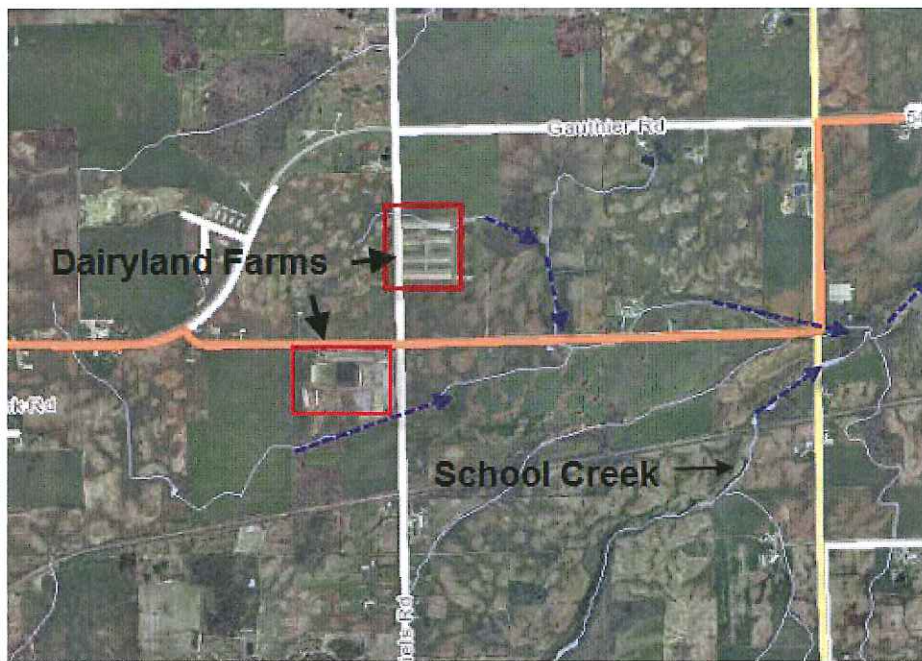


Photo 2: Overview of farm and stream locations. Drainage from both sites go into stream tributaries of School Creek.

### Feedlot Runoff

All cattle are housed under roof, there are no outdoor lot areas.

### Manure Storage Facilities

At time of inspection all three waste storage facilities were close to or at maximum operating levels. Due to time of year and weather conditions this was to be expected. There were some bedded pack and digested manure solids stacked at the Main Dairy site that had potential for discharging into nearby storm water flow paths.

Photo 3 (right): Looking north at waste storage facility 1.

Photo 4 (below): Looking northwest at waste storage facility 2.



Photo 5 (right): Looking northeast at Home Farm waste storage facility which primarily stores feed storage leachate and runoff.





Photos 6 and 7: Views of solid manure/waste feed piles at Main Dairy site.



### Digester Facility

Dairyland Farms has a digester facility located in the southeast corner of the Main Dairy production site. Only issue noted in this area are some wind-blown digested solids that may get into the storm water flow paths.

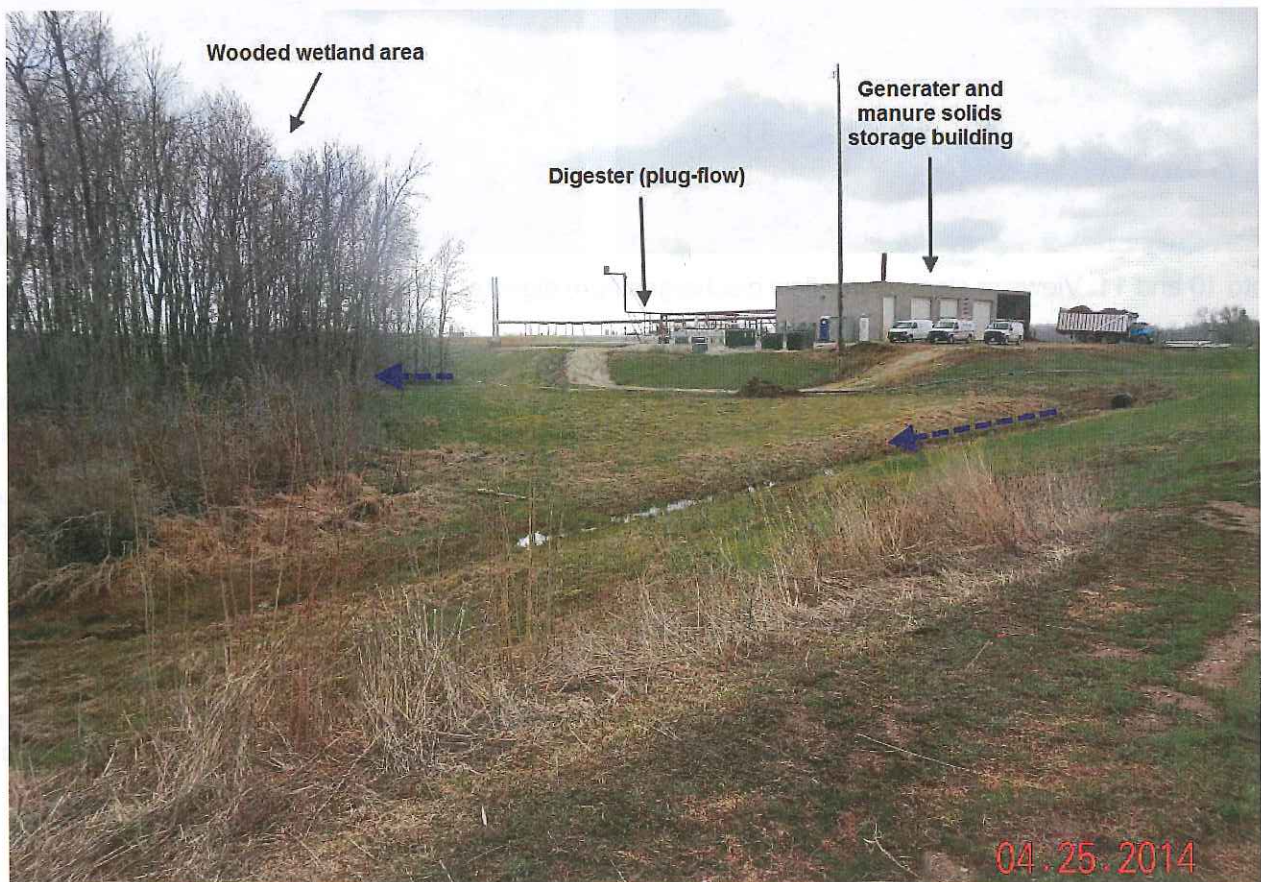


Photo 8: Looking southeast at digester area. Blue arrows showing storm water flow paths.





Photo 9 (left): View of wind-blown digested manure solids near storm water manhole.



Photo 10 and 11: Views of storm water flow discharges from digester area. Water was fairly clear in both areas.

### **Feed Storage Area and Runoff Controls**

Dairyland Farms has large feed storage area located at the Home Farm site. Feed is stored in large piles on a concrete pad—primary feed types are corn silage, haylage and high moisture corn. A runoff control system is in place but does not appear adequate due to the size of the feed storage area and proximity to stream tributary. The inspection revealed that discharges from end of vegetated treatment area (VTA) are occurring into stream tributary. A temporary containment berm is in place but based on site observations, not all ponded runoff within VTA is being pumped back to waste storage.

Feed stored on north end of barn at Home Farm must be fed out as soon as possible and abandoned permanently.

Dairyland Farms also uses silage bags, better location and housekeeping practices need to be proposed and approved by DNR. A discharge of silage leachate was occurring at Dairy site from silage bag into storm water ditch.



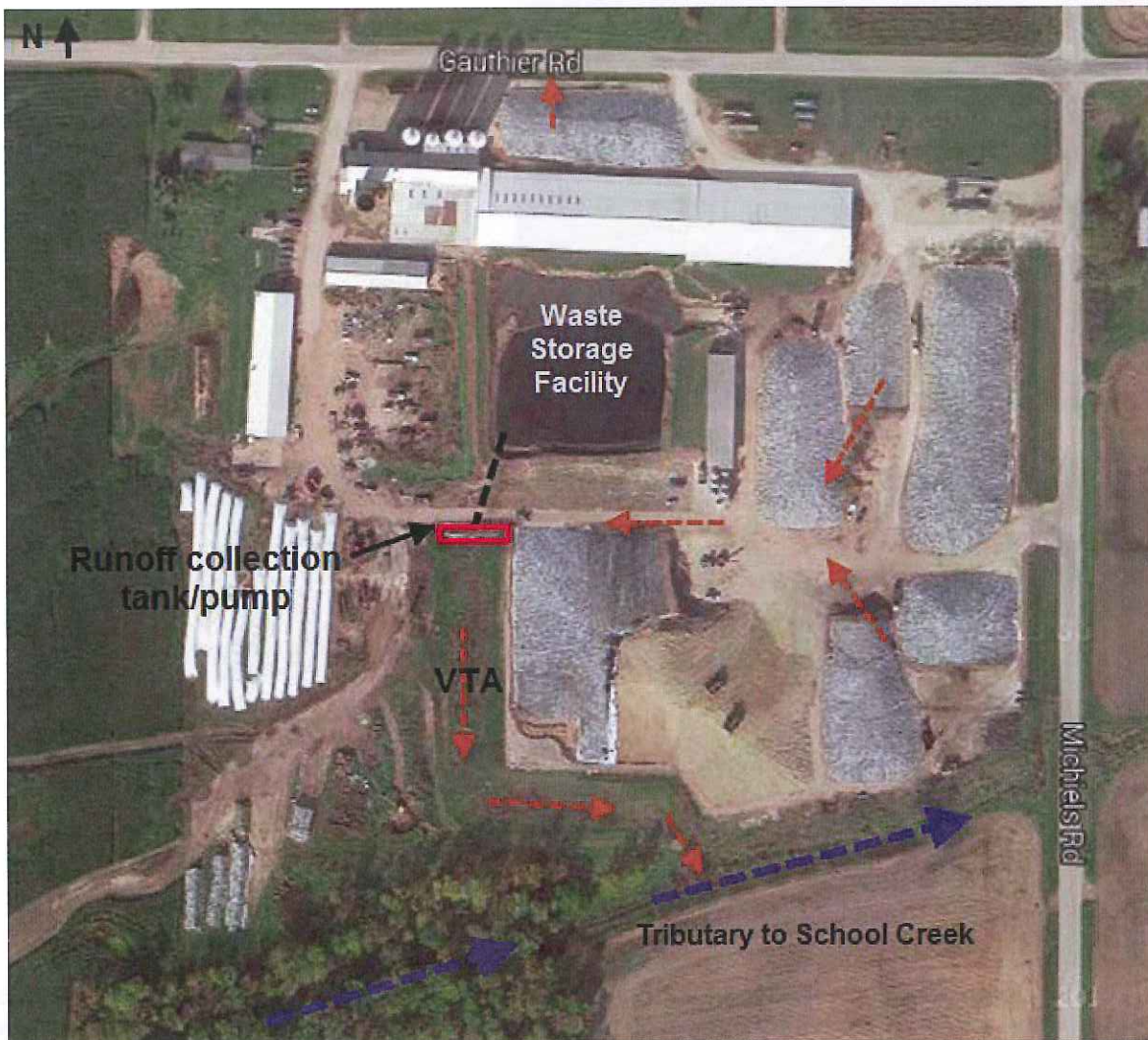


Photo 12 (above): Overview of Home Farm site.

Photo 13 (below): Looking south at feed storage area runoff control system.

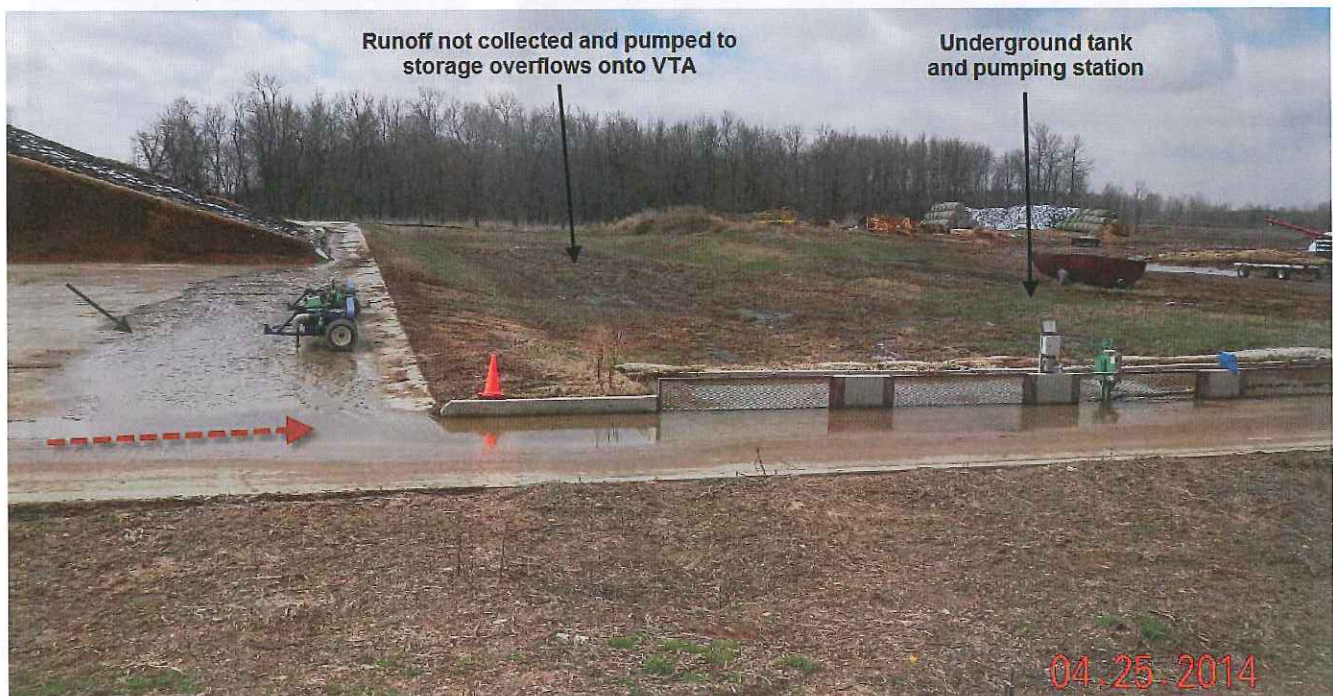






Photo 14: View of feed storage runoff water being pumped into waste storage facility.



Photo 15: Looking south at end of vegetated treatment area. An earthen berm was present at end prior to stream location (blue arrow). A temporary pump was pumping runoff water onto feed pad which flows toward runoff collection system tank and pump.



Photo 16 (above): Close view of earthen containment berm. Small eroded channel in berm is present where runoff water has likely overflowed berm and discharged to stream.  
 Photo 17 (right): View of ditch south of berm leading to stream. Water had slight sheen and discoloration indicative of leachate runoff.





Photo 18 (left): Looking east at discharge point from end of VTA into stream tributary.



Photo 19 (right): View of dark murky runoff water ponded at end of VTA. If not pumped with temporary pump, polluted water discharges directly to stream.



Photo 20: Looking west at southern edge of feed pad, no obvious signs of runoff discharging to stream in this area. Concrete pad is pitched toward north to direct leachate to runoff collection system.

Photo 21: Close view of large cracks in feed pad. Several areas need maintenance/replacement.

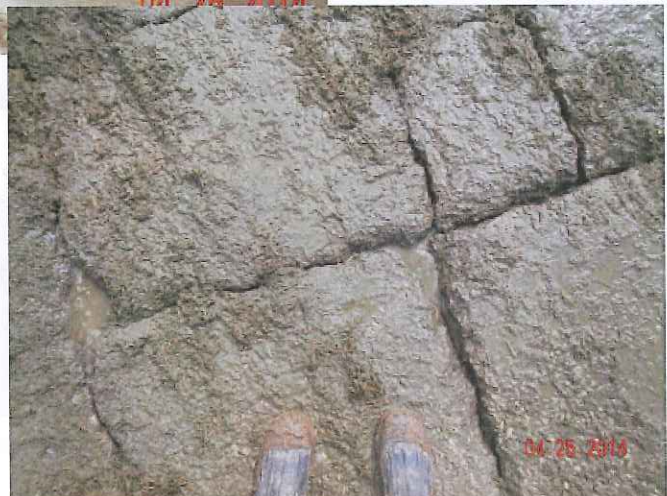






Photo 22: Looking west at haylage storage on north side of barn—there is no runoff collection for this area. Use must be discontinued as runoff is discharging into road ditch.



Photo 23 (below): Looking east at discharge flow path.



Photo 24: View of silage bags located in southwestern corner of Home Site.





Photo 25 and 26: Views of silage bag discharge at Dairy Site.

Photo 27: View of flow path of silage bag leachate into storm water ditch that discharges to stream tributary.



### Summary & Action Items

Dairyland Farms LLC is currently not in substantial compliance with permit requirements. As demonstrated in this inspection report, the primary area of concern is feed storage area discharges. Significant modifications need to be done to comply with discharge requirements. Due to proximity of stream, the DNR recommends total containment/collection of feed leachate and runoff from existing feed storage area. This likely would result in need to add additional waste storage at the Home Farm site. Relocation of feed storage area may also be a feasible consideration/solution. Requirements to return to compliance:

- Increase height of temporary containment berm, pump regularly and do not let any runoff water discharge to stream.
- Stop any discharges from silage bag storage areas. Discontinue use of bags unless approved by DNR.
- Consult with engineer on design options for upgrades in runoff control system.
- Consult with engineer on design for necessary replacement of cracked concrete feed pad areas.
- Remove and discontinue any stacks of waste feed, bed pack or digested manure solid at production sites where runoff is not contained.
- Install permanent feed storage control measures to address discharge problems.

**NOTE: The US EPA report has not been finalized; they may have additional requirements to comply with the discharge limitations based on their water sampling and records review.**



